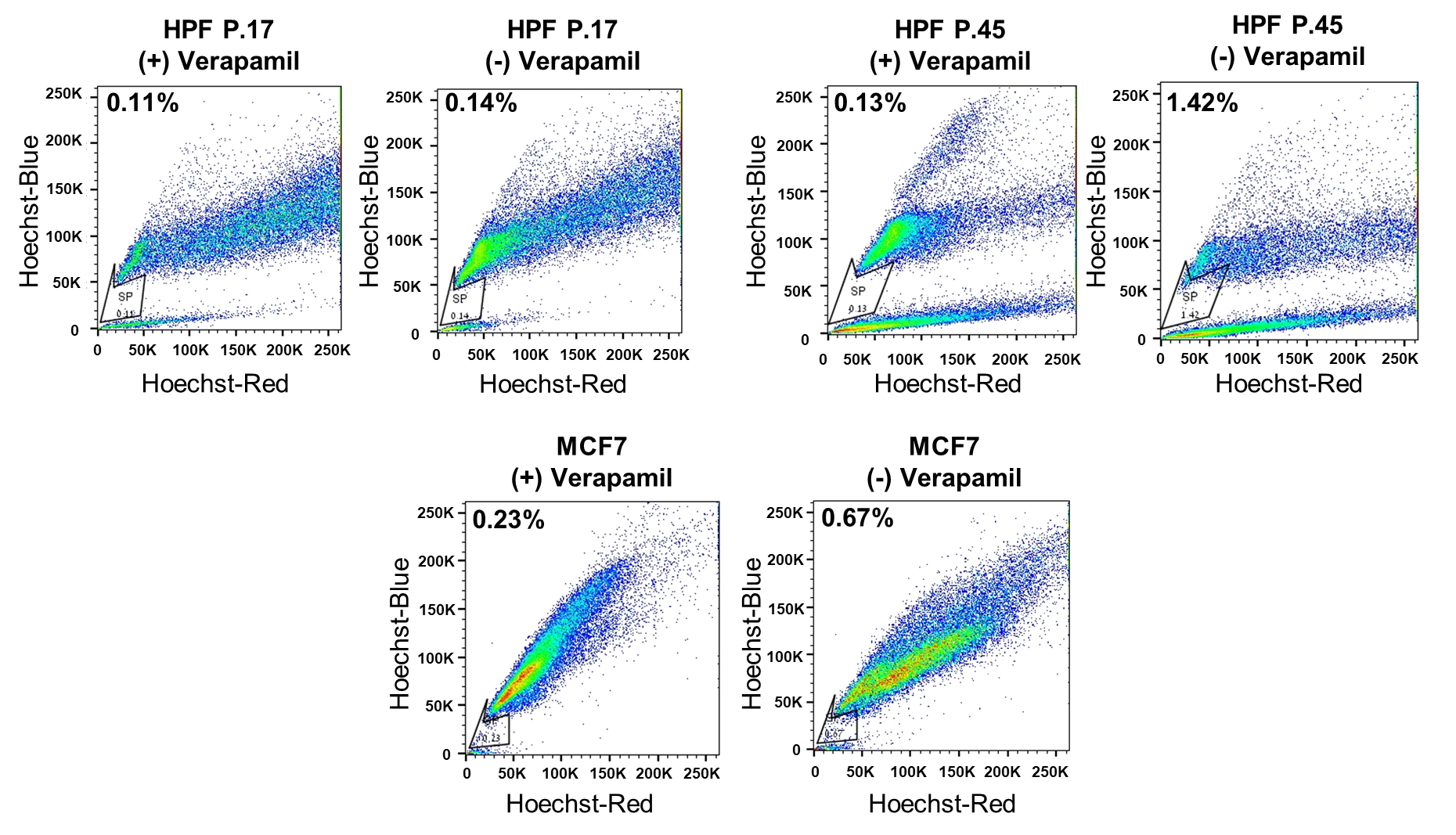


**Figure S1. Gating strategy for SP evaluation.** First, the cells were gated based on their size and opacity (FSC-A/SSC-A graph); then the cells were gated based on their shape (only single cells were chosen, FSC-A/FSC-H graph); next, only live cells were chosen (7-AAD-negative, 7-AAD/SSC-A graph); and, finally, the gate for SP evaluation was selected based on verapamil treatment that served as a negative control (Hoechst-Red/Hoechst-Blue graph).

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**Figure S2. Identification of side population cells in primary cultures of human pulmonary fibroblasts.** “Young” (P.17; PDT=1 day) and pre-senescent (P.45; PDT=5 days) HPFs, as well as MCF-7 breast cancer cells, were stained with Hoechst 33342 alone (-) or in combination with 50 µg/ml calcium channel blocker verapamil (+). Percentage of SP cells was calculated as a difference between (-) Verapamil and (+) Verapamil. The gate for SP evaluation was selected based on verapamil treatment that served as a negative control. The data are representative of at least three independent experiments.

**Table S1.** **Primers used for qPCR analysis.**

|  |  |
| --- | --- |
| Gene | Primer sequence (5'-3') |
| CDKN2A (P16) | Fw: CCACCCCGCTTTCGTAGTT  Rv: AGTGAAAAGGCAGAAGCGGT |
| CDKN1A (P21) | Fw: CAGACCAGCATGACAGATTTCTAC  Rv: AAGATGTAGAGCGGGCCTTT |
| IL6 | Fw: TAGTGAGGAACAAGCCAGAGC  Rv: TGGGTCAGGGGTGGTTATTG |
| THY1 (CD90) | Fw: CAGCAGTTCACCCATCCAGT  Rv: TGGTGAAGTTGGTTCGGGAG |
| ENG (CD105) | Fw: CTACGTGTCCTGGCTCATCG  Rv: CACGAAGGATGCCACAATGC |
| CD44 | Fw: CGCTACAGCATCTCTCGGAC  Rv: ACGTGCCCTTCTATGAACCC |
| GAPDH | Fw: ACATCGCTCAGACACCATG  Rv: TGTAGTTGAGGTCAATGAAGGG |
| PUM | Fw: GGGACTAGGCGTTAGCATGG  Rv: TCACTGTCTGCATCCCTTGG |

**Table S2.** **A list of antibodies used for FACS analysis.**

|  |  |  |
| --- | --- | --- |
| **Antibody** | **Catalog number** | **Manufacturer** |
| FITC-conjugated anti-human-CD45 | #304005 | Biolegend, San Diego, CA |
| FITC-conjugated anti-human-CD44 | #397517 | Biolegend, San Diego, CA |
| FITC-conjugated anti-human-CD34 | #11-0349-42 | eBioscience |
| PE-conjugated anti-human-CD133 | #372803 | Biolegend, San Diego, CA |
| Alexa Fluor 647-conjugated anti-human CD90 (Thy1) | #328116 | Biolegend, San Diego, CA |
| APC/Fire™ 750-conjugated anti-human-CD105 | #323225 | Biolegend, San Diego, CA |